

Comparisons of Job Characteristics

Focus Occupation: [Locomotive Engineers \(53-4011\)](#)

Associated Occupation: [Rail Car Repairers \(49-3043\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 48

Focus Occupation: Locomotive Engineers (53-4011)

Associated Occupation: Rail Car Repairers (49-3043)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mechanical	6.8	14.0	7.9	<< Extensive education and/or training may be required
Public Safety and Security	6.9	10.0	8.7	< Expanded education and/or training may be required
Design	5.2	4.6	1.8	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 34

Focus Occupation: Locomotive Engineers (53-4011)

Associated Occupation: Rail Car Repairers (49-3043)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Repairing	3.4	12.0	1.9	<< Extensive development of skills in this area may be required
Troubleshooting	4.5	11.5	7.1	<< Extensive development of skills in this area may be required
Equipment Maintenance	3.5	10.6	2.3	<< Extensive development of skills in this area may be required
Operation and Control	5.4	10.0	13.6	>> Skill level is likely more than sufficient
Operation Monitoring	6.6	9.8	13.3	>> Skill level is likely more than sufficient
Quality Control Analysis	5.9	9.6	8.3	< A higher skill level may be required
Equipment Selection	3.3	6.2	1.3	<< Extensive development of skills in this area may be required
Installation	1.7	5.6	1.0	<< Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 56			
Focus Occupation: Locomotive Engineers (53-4011) Associated Occupation: Rail Car Repairers (49-3043)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Arm-Hand Steadiness	6.8	12.3	9.2	<<	Extensive improvement in abilities may be required
Control Precision	6.6	12.3	14.4	>	Current ability level is likely sufficient
Multilimb Coordination	6.0	12.3	12.5	0	Current ability level may be sufficient
Manual Dexterity	6.5	12.0	10.6	<	Some improvement in abilities may be required
Extent Flexibility	4.8	11.8	4.4	<<	Extensive improvement in abilities may be required
Finger Dexterity	7.6	11.5	9.0	<	Some improvement in abilities may be required
Static Strength	5.0	11.5	6.2	<<	Extensive improvement in abilities may be required
Trunk Strength	5.7	11.4	6.2	<<	Extensive improvement in abilities may be required
Stamina	4.0	9.0	4.6	<<	Extensive improvement in abilities may be required
Gross Body Coordination	3.9	8.8	4.4	<<	Extensive improvement in abilities may be required
Gross Body Equilibrium	3.2	8.3	3.2	<<	Extensive improvement in abilities may be required
Speed of Limb Movement	3.2	7.6	7.1	0	Current ability level may be sufficient
Sound Localization	2.2	5.8	5.4	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 56	
Focus Occupation: Locomotive Engineers (53-4011) Associated Occupation: Rail Car Repairers (49-3043)			
Work Activities		Exclusivity of Activity	
Examine vehicle to detect malfunctions, damage, or maintenance needed		75	
Understand technical operating, service or repair manuals		6	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Locomotive Engineers (53-4011)
Associated Occupation: Rail Car Repairers (49-3043)

Tools and Technologies	Exclusivity
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Tools and technology data is unavailable for one or both occupations.	
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Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.